

DERWENT-ACC-NO: 1995-232516  
DERWENT-WEEK: 200415  
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TITLE: Absorbent ultra:thin hygiene prods. for e.g. nappies, sanitary towels and wound dressings have layers of fabric carrying particles of swellable crosslinked polysaccharide, pref. e.g. galacto:glucomannan(s) or guar gums

INVENTOR: FRITSCH U ; SCHOENEBAUM A ; SCHONEBAUM A ; ZIMMERMANN V

PATENT-ASSIGNEE:

ASSIGNEE	CODE
PROCTER & GAMBLE CO	PROC
TEMCA CHEM UNION GMBH	TEMCN

PRIORITY-DATA: 1993DE-4343947 (December 22, 1993), 1998AU-083137 (September 4, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
<u>DE</u> <u>4343947</u> <u>A1</u>	June 29, 1995	DE
<u>W0</u> <u>9517147</u> <u>A1</u>	June 29, 1995	EN
<u>AU</u> <u>9513846 A</u>	July 10, 1995	EN
<u>EP 735849</u> <u>A1</u>	October 9, 1996	EN
<u>JP</u> <u>09506798</u> <u>W</u>	July 8, 1997	JA
<u>KR</u> <u>97700468</u> <u>A</u>	February 12, 1997	KO
<u>AU</u> <u>9883137 A</u>	November 5, 1998	EN
<u>AU 708191</u> <u>B</u>	July 29, 1999	EN
<u>CA</u> <u>2179604 C</u>	November 7, 2000	EN
<u>EP 735849</u> <u>B1</u>	March 20, 2002	EN
<u>DE</u> <u>69430212</u> <u>E</u>	April 25, 2002	DE

ES August ES  
2170791 16, 2002  
I3  
KR 364343 October K0  
B 4, 2003

DESIGNATED-STATES: AM AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KE KG KP  
KR KZ LK LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN AT  
BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ AT BE CH DE DK ES FR GB  
GR IE IT LI LU MC NL PT SE AT BE CH DE DK ES FR GB GR IE IT LI LT LU MC NL PT SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 4343947A1	December 22, 1993	1993DE-4343947	
CA 2179604C	December 21, 1994	1994CA-2179604	
DE 69430212E	December 21, 1994	1994DE-630212	
W01995017147A1	December 21, 1994	1994W0-EP04263	
EP 735849A1	December 21, 1994	1994W0-EP04263	
JP 09506798W	December 21, 1994	1994W0-EP04263	
KR 97700468A	December 21, 1994	1994W0-EP04263	
CA 2179604C	December 21, 1994	1994W0-EP04263	
EP 735849B1	December 21, 1994	1994W0-EP04263	
DE 69430212E	December 21, 1994	1994W0-EP04263	
KR 364343B	December 21, 1994	1994W0-EP04263	
AU 9513846A	December 21, 1994	1995AU-013846	
EP 735849A1	December 21, 1994	1995EP-905099	
EP 735849B1	December 21, 1994	1995EP-905099	
JP 09506798W	December 21, 1994	1995JP-517194	
KR 97700468A	June 21, 1996	1996KR-703345	
KR 364343B	June 21, 1996	1996KR-703345	
AU 708191B	September 4, 1998	1998AU-083137	
AU 9883137A	September 4, 1998	1998AU-083137	Based on

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS <u>A61</u> <u>F</u> <u>13/15</u>		20060101
CIPS <u>A61</u> <u>F</u> <u>13/49</u>		20060101
CIPP <u>A61</u> <u>F</u> <u>13/53</u>		20060101
CIPS <u>A61</u> <u>F</u> <u>5/44</u>		20060101
CIPS <u>A61</u> <u>L</u> <u>15/28</u>		20060101
CIPS <u>A61</u> <u>L</u> <u>15/60</u>		20060101

ABSTRACTED-PUB-NO: DE 4343947 A1  
BASIC-ABSTRACT:

Absorbent ultrathin hygiene prods. comprise one or more layers of textile material carrying particles of a crosslinkable swellable polysaccharide in the form of particles which are either bonded to the surface of a solid support or bound within a carrier matrix.

Pref. the polysaccharides are galactomannans, galactoglucomannans, derivs. of galactomannans or galactoglucomannans, guar gum, xanthans, etc.. The polysaccharide particles are in the form of a powder, granulate or flakes with a particle size of 100-250 micrometres. The polysaccharide may be modified by surface treatment with urea crosslinked e.g. with antimonates, borate ions or Zr salts.

USE - For absorption of water, aq. solns. and body fluids, partic. in the prodn. of baby napkins, sanitary towels, wound dressings, incontinence pads, etc..

ADVANTAGE - The absorbent is made from natural material which is free from extractable toxic substances, remains mechanically stable in the swollen state with high retention of the absorbed liq., and gives ultrathin absorbent prods..

ABSTRACTED-PUB-NO: DE 4343947 A1  
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: ABSORB ULTRA THIN HYGIENE PRODUCT NAPKIN SANITARY TOWEL WOUND DRESS  
LAYER FABRIC CARRY PARTICLE SWELLING CROSSLINK POLYSACCHARIDE PREFER GALACTO  
GLUCOMANNAN GUAR GUM

DERWENT-CLASS: A96 D22 F07 P32 P34

CPI-CODES: A03-A00A; A12-V03A; D09-C02; D09-C03; D09-C04; D09-C04B; D09-C04D;  
D09-C06; F04-C01; F04-E04;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; G3623\*R P0599 D01 G3703 G3623; G3623 P0599 D01 R24069 135412;  
P0599 D01 G3623 R03104 96529; D01 P0599 G3623 R16377 110577; S9999  
S1503 S1456; S9999 S1514 S1456; S9999 S1547 S1536; M9999 M2802; M9999  
M2028;

Polymer Index [1.2]

017 ; ND01; Q9999 Q8004 Q7987; Q9999 Q8015 Q7987; B9999 B3758\*R B3747;

Polymer Index [1.3]

017 ; B9999 B3383\*R B3372; B9999 B3407 B3383 B3372; B9999 B5209 B5185  
B4740;

Polymer Index [1.4]

017 ; G1503 D01 D50 D82 F22 R00823 2033; A999 A033;

Polymer Index [2.1]

017 ; G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D86 F24 F29 F26 F34 H0293  
P0599 G3623 R01852 90356; S9999 S1070\*R; S9999 S1183 S1161 S1070;  
S9999 S1194 S1161 S1070;

Polymer Index [2.2]  
 017 ; ND01; Q9999 Q8004 Q7987; Q9999 Q8015 Q7987; B9999 B3758\*R B3747;  
 Polymer Index [2.3]  
 017 ; B9999 B3021 B3010;  
 Polymer Index [2.4]  
 017 ; G1503 D01 D50 D82 F22 R00823 2033; A999 A033;  
 Polymer Index [3.1]  
 017 ; G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 R00326 1013;  
 H0000; H0011\*R; S9999 S1070\*R; S9999 S1183 S1161 S1070; S9999 S1194  
 S1161 S1070; P1150; P1161;  
 Polymer Index [3.2]  
 017 ; G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 R00964 1145;  
 H0000; H0011\*R; S9999 S1070\*R; S9999 S1183 S1161 S1070; S9999 S1194  
 S1161 S1070; P1150; P1343;  
 Polymer Index [3.3]  
 017 ; ND01; Q9999 Q8004 Q7987; Q9999 Q8015 Q7987; B9999 B3758\*R B3747;  
 Polymer Index [3.4]  
 017 ; G1503 D01 D50 D82 F22 R00823 2033; A999 A033;  
 Polymer Index [4.1]  
 017 ; P0000;  
 Polymer Index [4.2]  
 017 ; ND01; Q9999 Q8004 Q7987; Q9999 Q8015 Q7987; B9999 B3758\*R B3747;  
 Polymer Index [4.3]  
 017 ; Q9999 Q6666 Q6644;

SECONDARY-ACC-N0:

CPI Secondary Accession Numbers: 1995-107369

Non-CPI Secondary Accession Numbers: 1995-181213